Statement of Academic Honesty

The following form is standard procedure for an exam that may be offered multiple times. Read the material below, then complete the form and return it with your completed exam. Your exam will not be graded unless a completed copy of this form is on file.

Course: IEM 3503/3513 Summer 2017

Test: Weekly Test # 2

There are others who may be taking this exam or a similar exam at a later date. You are in no way to have any form of direct or indirect communications regarding this exam with anyone. If someone asks something as simple as "How was it?" your best response is "I cannot talk about the exam." Any violation of the letter or spirit of the above will be treated as an act of academic dishonesty.

By completing the information below, I acknowledge that I have read and understood the Statement of Academic Honesty above.

Name (signature	e)	 	
N I (' ()			
Name (print): _			
Student ID:			
_		 	
Today's Date: _		 · · · · · · · · · · · · · · · · · · ·	

NAME:_	
_	DR. COLLINS

TEST #2C (ON-LINE SECTION ONLY)

TIME LIMIT: 75 MINUTES
TEST TIME WINDOW: THURSDAY, JUNE 22, 2017 (8:00AM) TO MONDAY
JUNE 26, 2017 (5:00PM)

(OPEN BOOK, ONE PAGE OF NOTES – 8 ½ X 11) Attach Notes Page to back of Test when submitted for grade ABSOLUTELY NO CELL PHONES OR BACKPACKS IN TESTING AREA!!!

Multiple Choice Questions: For each Multiple Choice question below select the most nearest answer from choices A-D. Properly write your selected answer in the blank beside the corresponding question. Each M/C question is worth 10 points each.

(10) ______1. A company has arranged to borrow \$50,000 today at 10%/yr/yr interest. The loan is to be repaid with end-of-year payments according to the following schedule. Find "X", the amount that will pay off the loan at the end of year 5.

End of Year	Payment Amount, \$
1	13,000
2	12,000
3	11,000
4	10,000
5	X

- A. \$21,210
- B. \$28,952
- C. \$33,677
- D. \$41,318

(10)2.	Maximilien wishes to accumulate \$3,000,000 in 30 years. If 30 end-of-
	year deposits are made into an account that pays interest at a rate of
	8.5% compounded annually, what size of deposit is required each
	year to meet Luis' stated objective?

- A. \$62,174
- B. \$31,150
- C. \$48,938
- D. \$24,150

OSU evaluated sealed bids on three financing packages for the construction of the new dormitory facility located on Hall of Fame road across from the Colvin Center. The first bid was from GE Capital bank, followed by Wells Fargo Bank with the second bid. The third bid was from Financial Management Corp (FMC). Each institution claims their rates were the best available for the construction project. Answer the next four questions based on the information below. (NOTE: For financial purposes assume 52 weeks per year, and 365 days per year.)

GE Capital Bank Wells Fargo Bank FMC		Bid #1: Bid #2: Bid #3:	
(10)3.	Calculate th Bank. A. 12.93 B. 12.55 C. 12.00 D. 11.64	9% 9% 9%	annual interest rate for Bid #1- GE Capital
(10)4.	Calculate th Bank. A. 11.64 B. 12.25 C. 12.73 D. 13.22	1% 1% 1%	annual interest rate for Bid #2 – Wells Fargo
(10) <u>5</u> .	Calculate th A. 7.53 B. 12.21 C. 12.88 D. 14.11	9% 9% 8%	annual interest rate for Bid #3 – FMC.

(10) <u>6</u>. What uniform series over the interval [11,20] will be equivalent to a

an 11%/yr/yr compound interest rate?

A. \$17,906B. \$28,393C. \$31,057D. \$45,944

uniform series of \$10,000 cash flows over the interval [1,10] based on

(10)	On John Pearson's twenty-fifth birthday, he invested \$10,000 in a tax-deferred retirement account. Each year thereafter, he deposited 6% more than the previous deposit. The account paid annual compound interest of 5%/yr/yr. Immediately after his 28 th deposit he died from a prolonged battle with cancer. When settling the estate affairs John's wife, Lisa, needed to find out how much was in the account immediately after the 28 th deposit? Therefore, calculate the total amount in the account right after the 28 th deposit. A. \$2,300,000 B. \$1,875,450 C. \$1,191,550 D. \$1,421,550
(10)8.	Upon graduation Zachary's first big purchase was a brand new 2016 Chevy Camaro Z-28 with a special power package (7.0L, V8, 505 Hp) for a total price of \$68,525. Determine what his monthly payment will be if he was able to finance the car for 72 months at an interest rate of 6% per year compounded monthly. A. \$1,135 B. \$1,525 C. \$2,366 D. \$4,142
(10)9.	Wendy borrows \$25,000 at 12% compounded annually; he plans on paying off the loan over a 5-year period with annual payments. Each successive payment is \$1,000 greater than the previous payment. Using the Linear Gradient Method what is amount of the first payment? A. \$8,160 B. \$7,160 C. \$6,160 D. \$5,160
(10) 10	O. Using the information from Problem #9 above what will be the amount of the third payment (at the end of year 3)? A. \$8,160 B. \$7,160 C. \$6,160 D. \$5,160